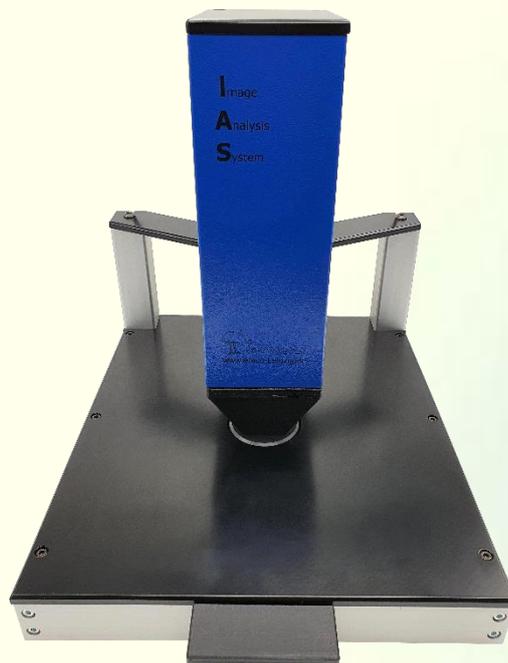


## **emco IAS**

### **Missing Dots Tester**

**Equipment for measuring the  
defects in screen printing**



Quality assessments of gravure products is usually based on the number of missing dots in quarter-tone and/or half-tone prints. The defects in screen printing are called missing dots.

The print image is clearly characterized by three parameters:

- Number of missing dots per 100 mm<sup>2</sup>
- Percentage of missing dots in relation to a perfect print
- Contrast between printing colors and paper background

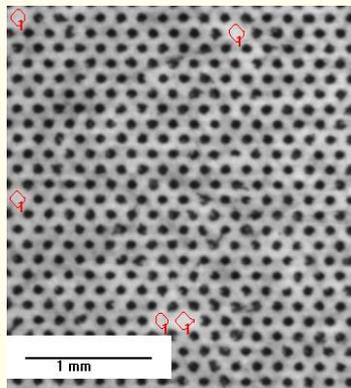
An objective assessment and quantification can be achieved with the IAS module "Missing Dots" according to the original algorithm of Dr. Hermann Praast, Darmstadt.

## Design and functionality

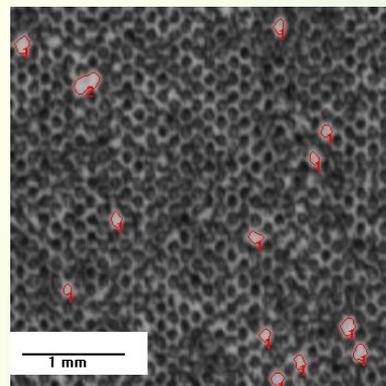
In a reflected light system a paper sample is illuminated so that lighter and darker areas are captured by a CCD camera. Screen pattern is automatically recognised. The high-contrast image is digitised and then analysed. The devices are calibrated and give reproducible results. The device check can be carried out at any time independent using the standard.

## Application

Quality control in papermaking and paper converting industry



Gravure sample with missing dots  
sharp dots



Gravure sample with missing dots  
unsharp dots

## Technical data

Measuring field: 10 mm x 10 mm  
Illumination: reflected light

### Scope of supply

Device with camera and illumination unit, power supply unit with mains plug, calibration standard and certificate  
Pan drive with software and drivers, software protection USB dongle, PC ware on request

### System requirements

CPU Intel® Core™ i5-2520M, CPU @ 2.50 GHz, Cores: 4  
RAM 4 GB  
Operating system (OS) Microsoft® Windows® 10 32/64 bit (required for USB 3.0)

### Dimension

Net: 480 x 360 x 440 mm<sup>3</sup> / 11.0 kg  
Gross: 800 x 600 x 700 mm<sup>3</sup> / 20.0 kg